

The following listing of claims will replace all prior versions, and listings, of claims in this application:

Claims 1-33 (Cancelled).

Ok Re at J  
Claim <sup>1</sup>~~34~~ (Previously Presented) In a method of constructing a new building, the improvement comprising applying a film to a structure of said building, wherein the film has a water vapor diffusion resistance ( $s_d$ -value) at a relative humidity of an atmosphere surrounding the vapor retarder in the region of 30% to 50% of 2 to 5 meters diffusion-equivalent air layer thickness, and, at a relative humidity in the region of 60% to 80% which is < 1 meter diffusion-equivalent air layer thickness.

Claim <sup>2</sup>~~35~~ (Previously Presented) The method according to claim <sup>1</sup>~~34~~, which further comprises a carrier material attached to the film.

Claim <sup>3</sup>~~36~~ (Previously Presented) The method according to claim <sup>2</sup>~~35~~, wherein the carrier material has a water vapor diffusion resistance which is less than the water vapor diffusion resistance of the film.

Claim <sup>4</sup>~~37~~ (Previously Presented) The method according to claim <sup>2</sup>~~35~~, wherein the carrier material is selected from the group consisting of particle board, chip board, oriented strand board, plywood paneling, gypsum board, fiber reinforced gypsum board, fiber board, cement board, cementitious wood wool board, calcium silica board, fiber insulation batts, fiber insulation slabs, foam insulation slabs, wall paper, and cloth.

<sup>5</sup>  
Claim ~~38~~ (Previously Presented) The method according to claim ~~35~~<sup>2</sup>, wherein the carrier material is a fiber-reinforced cellulose material.

<sup>6</sup>  
Claim ~~39~~ (Previously Presented) The method according to claim ~~34~~<sup>1</sup>, further comprising at least two layers of a carrier material, wherein the film is sandwiched between two layers of carrier material, the two layers of carrier material having a water vapor diffusion resistance which is less than the water vapor diffusion resistance of the film.

<sup>7</sup>  
Claim ~~40~~ (Previously Presented) The method according to claim ~~34~~<sup>1</sup>, wherein the film comprises polyamide.

<sup>8</sup>  
Claim ~~41~~ (Previously Presented) The method according to claim ~~40~~<sup>7</sup>, wherein the polyamide is selected from the group consisting of polyamide 6, polyamide 4, and polyamide 3.

<sup>9</sup>  
Claim ~~42~~ (Previously Presented) The method according to claim ~~41~~<sup>8</sup>, wherein the polyamide is polyamide 6.

<sup>10</sup>  
Claim ~~43~~ (Previously Presented) The method according to claim ~~34~~<sup>1</sup>, wherein the film has a thickness of 10  $\mu\text{m}$  to 2 mm.

<sup>11</sup>  
Claim ~~44~~ (Previously Presented) The method according to claim ~~34~~<sup>1</sup>, wherein the film has a thickness of 20  $\mu\text{m}$  to 100  $\mu\text{m}$ .

<sup>12</sup>  
Claim ~~45~~ (Previously Presented) The method according to claim ~~34~~, wherein the film comprises a pattern.

<sup>13</sup> <sup>1</sup>  
Claim ~~46~~ (Previously Presented) The method according to claim ~~47~~, wherein the film comprises a printed color pattern.

<sup>14</sup> <sup>1</sup>  
Claim ~~47~~ (Previously Presented) The method according to claim ~~47~~, wherein the film is applied to a wall of said new building.

<sup>15</sup> <sup>1</sup>  
Claim ~~48~~ (Previously Presented) The method according to claim ~~47~~, wherein the film is applied to a roof of said new building.

<sup>16</sup>  
Claim ~~49~~ (Previously Presented) The method according to claim ~~47~~, wherein the film is applied to a roof and a wall of said building.

<sup>17</sup>  
Claim ~~50~~ (Previously Presented) In a method of renovating a building, the improvement comprising applying a film to a structure of said building, wherein the film has a water vapor diffusion resistance ( $s_d$ -value) at a relative humidity of an atmosphere surrounding the vapor retarder in the region of 30% to 50% of 2 to 5 meters diffusion-equivalent air layer thickness, and, at a relative humidity in the region of 60% to 80% which is < 1 meter diffusion-equivalent air layer thickness.

17  
Claim ~~51~~<sup>18</sup> (Previously Presented) The method according to claim ~~50~~<sup>17</sup>, which further comprises a carrier material attached to the film.

18  
Claim ~~52~~<sup>19</sup> (Previously Presented) The method according to claim ~~51~~<sup>18</sup>, wherein the carrier material has a water vapor diffusion resistance which is less than the water vapor diffusion resistance of the film.

18  
Claim ~~53~~<sup>20</sup> (Previously Presented) The method according to claim ~~51~~<sup>18</sup>, wherein the carrier material is selected from the group consisting of particle board, chip board, oriented strand board, plywood paneling, gypsum board, fiber reinforced gypsum board, fiber board, cement board, cementitious wood wool board, calcium silica board, fiber insulation batts, fiber insulation slabs, foam insulation slabs, wall paper, and cloth.

18  
Claim ~~54~~<sup>21</sup> (Previously Presented) The method according to claim ~~51~~<sup>18</sup>, wherein the carrier material is a fiber-reinforced cellulose material.

17  
Claim ~~55~~<sup>22</sup> (Previously Presented) The method according to claim ~~50~~<sup>17</sup>, further comprising at least two layers of a carrier material, wherein the film is sandwiched between two layers of carrier material, the two layers of carrier material having a water vapor diffusion resistance which is less than the water vapor diffusion resistance of the film.

17  
Claim ~~56~~<sup>23</sup> (Previously Presented) The method according to claim ~~50~~<sup>17</sup>, wherein the film comprises polyamide.

24 23  
Claim ~~57~~ (Previously Presented) The method according to claim ~~56~~, wherein the polyamide is selected from the group consisting of polyamide 6, polyamide 4, and polyamide 3.

25 24  
Claim ~~58~~ (Previously Presented) The method according to claim ~~57~~, wherein the polyamide is polyamide 6.

26 17  
Claim ~~59~~ (Previously Presented) The method according to claim ~~50~~, wherein the film component has a thickness of 10  $\mu\text{m}$  to 2 mm.

27 17  
Claim ~~60~~ (Previously Presented) The method according to claim ~~50~~, wherein the film component has a thickness of 20  $\mu\text{m}$  to 100  $\mu\text{m}$ .

28 17  
Claim ~~61~~ (Previously Presented) The method according to claim ~~50~~, wherein the film comprises a pattern.

29 17  
Claim ~~62~~ (Previously Presented) The method according to claim ~~50~~, wherein the film comprises a printed color pattern.

30 17  
Claim ~~63~~ (Previously Presented) The method according to claim ~~50~~, wherein the film is applied to a wall of said new building.

31 17  
Claim ~~64~~ (Previously Presented) The method according to claim ~~50~~, wherein the film is applied to a roof of said new building.

17

<sup>32</sup>  
Claim ~~65~~ (Previously Presented) The method according to claim ~~50~~, wherein the film is applied to a roof and a wall of said building.

<sup>33</sup>  
Claim ~~66~~ (New): A method for providing a vapor barrier to a building, comprising installing a film on at least a part of the building, wherein the film has a water vapor diffusion resistance ( $s_d$ -value) at a relative humidity of an atmosphere surrounding the vapor retarder in the region of 30% to 50% of 2 to 5 meters diffusion-equivalent air layer thickness, and, at a relative humidity in the region of 60% to 80% which is < 1 meter diffusion-equivalent air layer thickness.

<sup>34</sup> <sup>33</sup>  
Claim ~~67~~ (New) The method of claim ~~66~~, wherein the film is attached to a carrier material.

<sup>35</sup> <sup>34</sup>  
Claim ~~68~~ (New) The method of Claim ~~67~~, wherein the carrier material is a thermal insulation.

<sup>36</sup> <sup>34</sup>  
Claim ~~69~~ (New) The method of claim ~~67~~, wherein the carrier material has a water vapor diffusion resistance which is less than the water vapor diffusion resistance of the film.

<sup>37</sup> <sup>34</sup>  
Claim ~~70~~ (New) The method of claim ~~67~~, wherein the carrier material is selected from the group consisting of particle board, chip board, oriented strand board, plywood paneling, gypsum board, fiber reinforced gypsum board, fiber board, cement board, cementitious wood wool board, calcium silica board, fiber insulation batts, fiber insulation slabs, foam insulation slabs, wall paper, and cloth.

<sup>38</sup>  
Claim ~~71~~ (New) The method of claim ~~70~~, wherein the carrier material is gypsum board.

<sup>39</sup>  
Claim ~~72~~ (New) The method of claim ~~70~~, wherein the carrier material is a fiber-reinforced cellulose material.

<sup>40</sup>  
Claim ~~73~~ (New) The method of claim ~~66~~, wherein the film is sandwiched between two layers of carrier material, the two layers of carrier material having a water vapor diffusion resistance which is less than the water vapor diffusion resistance of the film.

<sup>41</sup>  
Claim ~~74~~ (New) The method of claim ~~73~~, wherein at least one layer of carrier material is a thermal insulation.

<sup>42</sup>  
Claim ~~75~~ (New) The method of claim ~~73~~, wherein at least one layer of the carrier material is gypsum board.

<sup>43</sup>  
Claim ~~76~~ (New) The method of claim ~~66~~, wherein the film comprises polyamide.

<sup>44</sup>  
Claim ~~77~~ (New) The method of claim ~~76~~, wherein the polyamide is selected from the group consisting of polyamide 6, polyamide 4, and polyamide 3.

<sup>45</sup>  
Claim ~~78~~ (New) The method of claim ~~77~~, wherein the polyamide is polyamide 6.

<sup>46</sup>  
Claim ~~79~~ (New) The method of claim ~~66~~, wherein the film has a thickness of 10  $\mu\text{m}$  to 2 mm.

<sup>47</sup>  
Claim ~~80~~ (New) The method of claim ~~66~~<sup>33</sup>, wherein the film has a thickness of 20  $\mu\text{m}$  to 100  $\mu\text{m}$ .

<sup>48</sup>  
Claim ~~81~~ (New) The method of claim ~~66~~<sup>33</sup>, wherein the film is attached to an inner wall surface of the building.

<sup>49</sup>  
Claim ~~82~~ (New) The method of claim ~~66~~<sup>33</sup>, wherein the installing the film comprises spraying or painting the film onto the building.

<sup>50</sup>  
Claim ~~83~~ (New) The method of claim ~~66~~<sup>33</sup>, wherein the film is a formed film.

<sup>51</sup>  
Claim ~~84~~ (New) The method of claim ~~83~~<sup>50</sup>, wherein the film comprises polyamide.

<sup>52</sup>  
Claim ~~85~~ (New) The method of claim ~~84~~<sup>51</sup>, wherein the polyamide is selected from the group consisting of polyamide 6, polyamide 4, and polyamide 3.

<sup>53</sup>  
Claim ~~86~~ (New) The method of claim ~~85~~<sup>52</sup>, wherein the polyamide is polyamide 6.

<sup>54</sup>  
Claim ~~87~~ The method of claim ~~83~~<sup>50</sup>, wherein the thickness of the formed film is 10  $\mu\text{m}$  to 2 mm.

<sup>55</sup>  
Claim ~~88~~ (New) The method of claim ~~83~~<sup>50</sup>, wherein the thickness of the formed film is 20  $\mu\text{m}$  to 100  $\mu\text{m}$ .



Application No. 10/617,672  
Reply to Office Action of February 3, 2004

Claim ~~89~~<sup>56</sup> (New) The method of claim ~~83~~<sup>20</sup>, wherein the formed film is attached to a carrier material.

Claim ~~90~~<sup>57</sup> (New) The method of claim ~~89~~<sup>56</sup>, wherein the carrier material is a thermal insulation.

Claim ~~91~~<sup>58</sup> (New) The method of claim ~~89~~<sup>56</sup>, wherein the carrier material is selected from the group consisting of particle board, chip board, oriented strand board, plywood paneling, gypsum board, fiber reinforced gypsum board, fiber board, cement board, cementitious wood wool board, calcium silica board, fiber insulation batts, fiber insulation slabs, foam insulation slabs, wall paper, and cloth.

Claim ~~92~~<sup>59</sup> (New) The method of claim ~~91~~<sup>58</sup>, wherein the carrier material is gypsum board.

Claim ~~93~~<sup>60</sup> (New) The method of claim ~~92~~<sup>59</sup>, wherein the carrier material is a fiber-reinforced cellulose material.

Claim ~~94~~<sup>61</sup> (New) The method of claim ~~83~~<sup>50</sup>, wherein the formed film is sandwiched between a carrier material and the thermal insulation, the carrier material having a water vapor diffusion resistance which is less than the water vapor diffusion resistance of the film.

Claim ~~95~~<sup>62</sup> (New) The method of claim ~~94~~<sup>61</sup>, wherein the carrier material is a thermal insulation.

<sup>63</sup>  
Claim ~~96~~ (New) The method of claim ~~94~~,<sup>61</sup> wherein at least one layer of carrier material is gypsum board.

<sup>64</sup>  
Claim ~~97~~ (New) The method of claim ~~83~~, wherein the formed film comprises a pattern.

<sup>65</sup>  
Claim ~~98~~ (New) The method of claim ~~83~~,<sup>50</sup> wherein the formed film comprises a printed color pattern.

<sup>66</sup>  
Claim ~~99~~ (New) The method of claim ~~66~~,<sup>33</sup> wherein the film is installed onto a wall structure of the building.

<sup>67</sup>  
Claim ~~100~~ (New) The method of claim ~~66~~,<sup>33</sup> wherein the film is installed onto a roof structure of the building.

<sup>68</sup>  
Claim ~~101~~ (New) The method of claim ~~100~~,<sup>67</sup> wherein the film is installed such that it covers at least two rafters of the roof structure.

<sup>69</sup>  
Claim ~~102~~ (New) The method of claim ~~66~~,<sup>33</sup> wherein the film is installed onto a wall structure and a roof structure of the building.

<sup>70</sup>  
Claim ~~103~~ (New) The method of claim ~~83~~,<sup>50</sup> wherein the formed film is installed onto a wall structure of the building.

Application No. 10/617,672  
Reply to Office Action of February 3, 2004

<sup>71</sup>  
Claim ~~104~~ (New) The method of claim ~~83~~ <sup>50</sup> wherein the formed film is installed onto a roof structure of the building.

<sup>72</sup> <sup>71</sup> ~~80~~  
Claim ~~105~~ (New) The method of claim ~~104~~, wherein the formed film is installed such that it covers at least two rafters of the roof structure.

<sup>73</sup> <sup>50</sup>  
Claim ~~106~~ (New) The method of claim ~~83~~, wherein the formed film is installed onto a wall structure and a roof structure of the building.